

CRF Processing Date: 12/12/01
Edited by: DC
Verified by: (STIC sta

Serial Number: 101001,887

ENTERED #2

- ☐ Changed a file from non-ASCII to ASCII
- ☐ Changed the margins in cases where the sequence text was "wrapped" down to the next line.
- ☐ Edited a format error in the Current Application Data section, specifically: _____
- ☐ Edited the Current Application Data section with the actual current number. The number inputted by the applicant was ☐ the prior application data; or ☐ other _____.
- ☐ Added the mandatory heading and subheadings for "Current Application Data".
- ☐ Edited the "Number of Sequences" field. The applicant spelled out a number instead of using an integer.
- ☐ Changed the spelling of a mandatory field (the headings or subheadings), specifically: _____
- ☐ Corrected the SEQ ID NO when obviously incorrect. The sequence numbers that were edited were: _____
- ☐ Inserted or corrected a nucleic number at the end of a nucleic line. SEQ ID NO's edited: _____
- ☐ Corrected subheading placement. All responses must be on the same line as each subheading. If the applicant placed a response below the subheading, this was moved to its appropriate place.
- ☐ Inserted colons after headings/subheadings. Headings edited included: _____
- ☐ Deleted extra, invalid, headings used by an applicant, specifically: _____
- ☒ Deleted: ☒ non-ASCII "garbage" at the beginning/end of files; ☐ secretary initials/filename at end of file; ☐ page numbers throughout text; ☐ other invalid text, such as _____
- ☐ Inserted mandatory headings, specifically: _____
- ☐ Corrected an obvious error in the response, specifically: _____
- ☐ Edited identifiers where upper case is used but lower case is required, or vice versa.
- ☐ Corrected an error in the Number of Sequences field, specifically: _____
- ☐ A "Hard Page Break" code was inserted by the applicant. All occurrences had to be deleted.
- ☐ Deleted *ending* stop codon in amino acid sequences and adjusted the "(A)Length:" field accordingly (error due to a PatentIn bug). Sequences corrected: _____
- ☐ Other: _____

*Examiner: The above corrections must be communicated to the applicant in the first Office Action. DO NOT send a copy of this form.

3/1/95

OIPE

RAW SEQUENCE LISTING
PATENT APPLICATION: US/10/001,887

DATE: 12/17/2001
TIME: 12:39:26

Input Set : A:\PTO.DC.txt
Output Set: N:\CRF3\12172001\J001887.raw

3 <110> APPLICANT: Salceda, Susana
4 Macina, Roberto
5 Recipon, Herve
6 Cafferkey, Robert
7 Sun, Yongming
8 Liu, Chenghua
10 <120> TITLE OF INVENTION: Compositions and Methods Relating to Breast Specific Genes
and Proteins
12 <130> FILE REFERENCE: DEX-0269
C--> 14 <140> CURRENT APPLICATION NUMBER: US/10/001,887
C--> 14 <141> CURRENT FILING DATE: 2001-11-20
14 <150> PRIOR APPLICATION NUMBER: 60/249,998
15 <151> PRIOR FILING DATE: 2000-11-20
16 <150> PRIOR APPLICATION NUMBER: 60/252,563
17 <151> PRIOR FILING DATE: 2000-11-22
20 <160> NUMBER OF SEQ ID NOS: 137
22 <170> SOFTWARE: PatentIn version 3.1
24 <210> SEQ ID NO: 1
25 <211> LENGTH: 1632
26 <212> TYPE: DNA
27 <213> ORGANISM: Homo sapien
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34 accctttttt ttttaaattt tgcgcacacg ggggtgtattt ttgttccaca caaaacatct 180
36 attcacattg tgtttacacc ctcttatittt ctttgagaaa accacaacat attttattta 240
38 aatatttgtgt ttgtgtcttc tctaaaaacg cctcttattc cctctccac gtttctcaat 300
40 ctcttttgtgt atatttgtgt tatattttaa gcacacataa gagatgttat atttgtgtgtg 360
42 tgcacactac tctctctatg ttcaacacac acacacatat atataccct ctatgggaca 420
44 catatatata aacaatatat gtgatgacac acacagatct gttatgtgac actatttctc 480
46 acacacatat ataaagtcta tctctcttct aatatatctc acggtgtata tatcacagtg 540
48 tattcatcac aggaatatata tatgtgtgtg ctcgcccgcc tctatatata tatacactac 600
50 atatatataa catatatcta taacatctgg tgtatgtggg cttaaaacac gacatataat 660
52 atatcatgtt atatctaccc acacaggata tgtgtgtaca cacaaagagg gagaagataa 720
54 tatgtgtata tctctccctt actctctcta aacaacctcc cctctatata cacacagggtg 780
56 tgtagagaaa gtagttataa ggggagttgt tttcgtgttc tacaaagggg cgcagaacag 840
58 taacaaatac tgttgtgagg gtgtcgttct catctatcaa tattttccac agctaattatt 900
60 tcccgcgggt gtatataata tctagagggg agggcaatcg tggcgctcgt attctcatgt 960
62 gggagagtaa taatgtcggc tctcttaaag ggggtggttg tagaaccctt ctccctataa 1020
64 tagtaaaaga tgtttaacac agccaacggg tggctgcttg ttgatgacat aatatcgcac 1080
66 caccaatgt ggggtgtggtg ggggaggcaa ctacacgacg gagacaaaca aattgcggcg 1140
68 ggtggcggcc gcccgattct gtattttattc gaacgcgcgc cctgtgttgt gttgtgcggc 1200
70 aactatctgc gcctacttgc ttgtcacca aacaataata tataggcggg agcgggtgct 1260
72 ggcgaggaga gacacacacg tctttccctc ccgaacaaac aaaacagagg gggcggtatga 1320
74 ctgacgcctg attgtataga aacaaaaacg atcgaacgac gaaggcaacg atccgtctat 1380
76 tgcgacgtca gacaacgcgc gcctccttct cttccagggg gggggggata gatacttagg 1440
78 gtagatacta ccgtagtagt atttgtgcgc ggcagcacac gacgaaagac ttactcagag 1500
80 agtgtctccc ccaccaagg aggtagaaat gaagtgggga ggacgactac ttctacaaac 1560

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Input Set : A:\PTO.DC.txt
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84 tgtgcgcgcc ga 1632
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88 <211> LENGTH: 163
89 <212> TYPE: DNA
90 <213> ORGANISM: Homo sapien
92 <400> SEQUENCE: 2
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95 agacctctta tataattgat tgacgcaaac ttgtcctcct ctaagaggag agagtctgct 120
97 taagcgtaag ttgcccagtg caaaaagcca taataataag tat 163
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101 <211> LENGTH: 666
102 <212> TYPE: DNA
103 <213> ORGANISM: Homo sapien
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106 <221> NAME/KEY: misc_feature
107 <222> LOCATION: (166)..(166)
108 <223> OTHER INFORMATION: a, c, g or t
111 <220> FEATURE:
112 <221> NAME/KEY: misc_feature
113 <222> LOCATION: (332)..(332)
114 <223> OTHER INFORMATION: a, c, g or t
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120 ttaaaattag gccacgggg gggattttta taaacctcta tttattttcc aacaaatttt 120
W--> 122 gtgggtccaaa tataaaactc atttttttct accttacaca acttgnccct ctttattctc 180
124 atttttaaat gatggatata cctcacaact ctctgcgtct caaaccaaat tctttttttc 240
126 ttaaacagtg acgcgtggta aactctccta tacccttata tatttcccc gcggtgggaa 300
W--> 128 aaattagcct tttcaaaatg tgttctcccc antcttgtgg cttattaaaa ggtgggggaat 360
130 tccctttctt tgtgggacgc ccctatactg ttgtctctg gctctccttt taggcccag 420
132 gagaatttct tctctccagg tgagagagag gcgggtttca ccgcagtata taaaccgcca 480
134 aagctggggc ggatacgtcg gtgtccact agccgtgttc cccttggttg tgaaaatttg 540
136 ttattcccg cctcacaatt ctcccccca aatactccac ccaccccaac ccgcagcgga 600
138 gtacggacaa cgacgacacc acgacgataa tacgaacaaa gcaacctaac atcgaacact 660
140 acacaa 666
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144 <211> LENGTH: 1107
145 <212> TYPE: DNA
146 <213> ORGANISM: Homo sapien
148 <400> SEQUENCE: 4
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153 tttttttttt tttttttttt tttttttttt tttttttttt ttttttgggg gggccccctt 180
155 tttttttccc ccccccccc cttttttttt ttccgggggg gggggcccta ctaaagacag 240
157 ccggtaccg aaaaaaatac acctagggtt tattttcacc cccaatcacc atggttgctg 300
159 accccccag ggggggctct ctttcttttt cccaactctc ccaaccgacg tggttttcct 360
161 cccccctacc gtcgtggggg gtaccccggt cgccacagtc ggtgtgttcc cgctgtgtgg 420
163 taggaaagtg tgtttctctc ccgcctcacc gaccttcttc ccaccacac aaacatatgc 480
165 agcagcgcca agaacacaaa ctcgttccga ccggacggcc cggacggaac ggcgatgtg 540

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167 aggctcgacg caaccatatg caaggggacgg catcacagag cccgaccagg atcgagacca 600
169 gcgatcgcac ggacgaacag cgcacgcgc cgccgcacca cccaccggc ccgaggggg 660
171 agatcaatac atgcggccgt gcagcctcca agggcccaac caccaagctc ggcgcggaat 720
173 caggacggac catgacgcac accgaacgac gaagaccaa gcaacatctc gccacgaacg 780
175 cccaaagacc gcgattgcac aggcacccaa cgtgtatccg aaggatgagc gactgacacc 840
177 aacacacctg tggcctgcct tgatgctgca cggcgcgaaa cggagatcct gccggtcgtc 900
179 gccacgcgta cccacagaaa gccaacaagc gacacgacac cacaacacac cgaagcagct 960
181 cacggaggaa gagatgcaaa gaacaacgac aaatgaacac aaaaaacgac cacaacaga 1020
183 gatgagtaca accgacaaac aaaaaaagca agactcaaac acacaccgag cagtaagtgc 1080
185 gatacagcaa agagaccaga caaccaa 1107
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189 <211> LENGTH: 720
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191 <213> ORGANISM: Homo sapien
193 <220> FEATURE:
194 <221> NAME/KEY: misc_feature
195 <222> LOCATION: (364)..(364)
196 <223> OTHER INFORMATION: a, c, g or t
199 <220> FEATURE:
200 <221> NAME/KEY: misc_feature
201 <222> LOCATION: (429)..(429)
202 <223> OTHER INFORMATION: a, c, g or t
205 <220> FEATURE:
206 <221> NAME/KEY: misc_feature
207 <222> LOCATION: (459)..(459)
208 <223> OTHER INFORMATION: a, c, g or t
211 <220> FEATURE:
212 <221> NAME/KEY: misc_feature
213 <222> LOCATION: (637)..(637)
214 <223> OTHER INFORMATION: a, c, g or t
217 <220> FEATURE:
218 <221> NAME/KEY: misc_feature
219 <222> LOCATION: (654)..(654)
220 <223> OTHER INFORMATION: a, c, g or t
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226 aaaatattaa ctttgttttt taatcattgg gagggggggc cccgaagaag ggggtagggg 120
228 cccaggggaa ggggggggtc tgtgaaaata ataaccaaa atgtgttgaa agaaaagggg 180
230 ggggtgttaa aagcggccgt gccagggggg tctccccgg gttctcgctt tctgtgggaa 240
232 ggggacgcgc cttgtgagga agggagtctt gtatgcaacg cctattagtc ttggtgcctc 300
234 ccaattcact attataaaaa atttctgtga aaacttctta gcttgcccat ctcggttggt 360
W--> 236 gggntgtctc tagttcttct tcctctcatg tgcggggccag aggcacccca gggggctcct 420
W--> 238 ctctagcctt cctgtggtgg aaaggggaca gccatagtn tgcgtgatat ctctcatgta 480
240 aatagcgcgt gggggcgat aaactcgtgt gggggcacat atagcgcgtg tgttgccgcg 540
242 tgggtgaggt ggaagcatgt gtgggttttc tgtgcgcgcg cctcacacat attaccccc 600
W--> 244 aacaactcat tacgtggtta agcaaaaaag cgtgtgntgg cagtgcgcag gganaacggg 660
246 gtcacaagta gtacaaacaa gcaagctga atgacaaaaa aacgaggtga aaaaaagaa 720
249 <210> SEQ ID NO: 6
250 <211> LENGTH: 927

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Output Set : N:\CRF3\12172001\J001887.raw

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251 <212> TYPE: DNA
252 <213> ORGANISM: Homo sapien
254 <400> SEQUENCE: 6
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256 cagcctgtct gtaactgggtg aatgggtgatg tgtttcctgg ctgagaactg tgtttacagt      120
257 cagcctgtct gtaactgggtg aatgggtgatg tgtttcctgg ctgagaactg tgtttacagt      180
259 aagtctctgc cctccagtga actttttaag ggcaggagcc atctttgtaa gccccagcact      240
261 tgcttggtgc ccagacacat gtagtatgtt ttcagtaatc gtggctgttc actagctgct      300
263 tgattgaaca ttatttgtgt gtaataatgt cattaataa tgagaaaata aatacttagc      360
265 aattgaaaaa aaaaaaaaaa aaaaaaaaaa aggcgtgggg gaaaacgggg ccaagcgtgt      420
267 aaccgggtg gggaaaagt ggtataccgc ggccccaaaa tgtccccac ctcaccaata      480
269 gcgccagcca caaggagaga cggagcacac agccaacaat gagcagagca acgacaacag      540
271 aaaagagacc aaagcagaac acagacgaag gaccgcagc caacaagaga gaccaccaga      600
273 agtgaagcga cagcgacgaa acagagcacg agcaacgaaa cgcaacagca aagagcagca      660
275 aaagcgtcag agacgaaagg ccgacagccg ggaatagaag gaaggcacag gcaacgccgt      720
277 gagccgacac aagaccaggg tgcgacacca agagccagca cagcgagtga aacagaagcg      780
279 agaagcgaag aaaaaggacg cagcagacgg cagctggaag gcggacgaga cggagactga      840
281 gacgcagcac ggcggcgcgc gcacgggccg cggagtaggg agaacacgag aaagagcaga      900
283 caagcaccag caggagaggaa agaaacagcg cagaaggccc cgaccggcac gagccgacaa      927
285 gacacgccga acacacggac ggcagag
288 <210> SEQ ID NO: 7
289 <211> LENGTH: 451
290 <212> TYPE: DNA
291 <213> ORGANISM: Homo sapien
293 <400> SEQUENCE: 7
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295 aaggaaaccg gctaaaattt attcccaagc cttttgtgtt taaggttggc aagggggggt      120
296 aaggaaaccg gctaaaattt attcccaagc cttttgtgtt taaggttggc aagggggggt      180
298 ttggtcccca aaacccttc cagttgtgtt aaccactta tttattggg gaaacaacca      240
300 aatattatta ttacaaattg ggtggggcgt ctaaaaaacg cccaattccc cccaagggtc      300
302 taaacctctt ggtgacattg gggaattatt tatgcgcaaa tggaagagtt atttgggggt      360
304 gatcactcct aatgttaaag cagagcgaca gagatatacg catctagagg gcgaagaata      420
306 aaaaaatggg cgcaggatct gtatgcgcaa ttatcccaga ataactttt cttaaatata      451
308 caggtatcca gccccaaaag taggggggcg c
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312 <211> LENGTH: 651
313 <212> TYPE: DNA
314 <213> ORGANISM: Homo sapien
316 <400> SEQUENCE: 8
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319 gaaaattttt ttttttaagg ggttttccca aaaaaaaaaa ttttcaggga ataaaaaata      180
321 aaatctttta aatttttccc ggttttattt tcccccccc ccccaaaaag ctttttgggg      240
322 aaaaaaaa tttcagtcta aaacaccccc tggatttgtc ggtgggcgga tcaagagagg      300
323 aaaaaaaa tttcagtcta aaacaccccc tggatttgtc ggtgggcgga tcaagagagg      360
325 tggacagaat tagtctgccc tctctcaca acagacaact cctcgtgtgg ggtgtggtcc      420
326 tccctctcag agggagaggg gagtggaag tgcgcctcc cacatattca cttgttgggt      480
327 tccctctcag agggagaggg gagtggaag tgcgcctcc cacatattca cttgttgggt      480
329 gcaaggggac gagataaaaa aaaacggcgg ggcgggaaca ctgaggagg gccatcatgc      540
330 gtgtgtccgc cgttgtgtgt gagaaaatgt ggtgtctacc gccgcgcgc acaaatatct      600
331 gtgtgtccgc cgttgtgtgt gagaaaatgt ggtgtctacc gccgcgcgc acaaatatct      600
333 cccacacaca aatatatcga gcgcaaacga acaacgggag gagggcgagc agccgacgaa      600
335 cacggagcag ggcaggtgag gaaaagccc ggcaaacagg agacacagga agcaaccgaa      651
336 gaggcgtaag ggatagaaag aaggacggga cgagagcaac gaaaagcgcg c
337 gaggcgtaag ggatagaaag aaggacggga cgagagcaac gaaaagcgcg c
340 <210> SEQ ID NO: 9

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RAW SEQUENCE LISTING
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Input Set : A:\PTO.DC.txt
Output Set: N:\CRF3\12172001\J001887.raw

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342 <212> TYPE: DNA
343 <213> ORGANISM: Homo sapien
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346 <221> NAME/KEY: misc_feature
347 <222> LOCATION: (6)..(6)
348 <223> OTHER INFORMATION: a, c, g or t
351 <400> SEQUENCE: 9
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354 agtgtggcctt tatatttgat ccacacacgt ggtcttttaa cca      103
357 <210> SEQ ID NO: 10
358 <211> LENGTH: 452
359 <212> TYPE: DNA
360 <213> ORGANISM: Homo sapien
362 <400> SEQUENCE: 10
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367 cttgagccca ggagtttgag accagcctgg gcaacatggc aaaaccccat ctctacaaaa      180
369 aatacaaaaa gtaggccggg cacggtggtt cacacctgta atcccggcat tttgggaggc      240
371 cgagataggt ggatcacctg aagtcagggt tttgagacca gcctggccaa catggtggaa      300
373 cccaatctct actaaaaata caaaaaaat agccggatat ggtggcgggt gcctgtaatc      360
375 tcagctactt gagaggctga ggcaggagaa tcgcttgaac ttgggagcag aggtgagctg      420
377 agtgcagtga gccaagacca tgccattaca ct      452
380 <210> SEQ ID NO: 11
381 <211> LENGTH: 576
382 <212> TYPE: DNA
383 <213> ORGANISM: Homo sapien
385 <220> FEATURE:
386 <221> NAME/KEY: misc_feature
387 <222> LOCATION: (318)..(318)
388 <223> OTHER INFORMATION: a, c, g or t
391 <400> SEQUENCE: 11
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396 acccatctca aacaaacaaa caaacaacaaa aaaaaaacctc tggctcctt aaggatatgt      180
398 taccggctcc atggcagact agagaattaa ttgtgtttg aaccctttta ccgtgcaaaa      240
400 ctgtgaaaat gtgctagaaa aaccaagac atgaacgaat taaattacct gtgggtggga      300
W--> 402 caacacaccg ggccttgntg cctttttgct ttattacatt ggctacagta agctaagggt      360
404 tagaaaaggc taggcttggg ttggtattct ggaaccacat tggaatctcc ttttcggggc      420
406 gctcagggtg taggagaagg gcaccacgcc caagattcct tattaggga ttgaattacc      480
408 ttcaaatcct tgggtgggtc ttggaagattc tctataagg aaacggattt taaaaacccc      540
410 acctgggggtg cccatttttt ttaaaacaaa aaaaac      576
413 <210> SEQ ID NO: 12
414 <211> LENGTH: 707
415 <212> TYPE: DNA
416 <213> ORGANISM: Homo sapien
418 <220> FEATURE:
419 <221> NAME/KEY: misc_feature
420 <222> LOCATION: (390)..(390)

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Use of n and / or Xaa has been detected in the
Sequence Listing. Review the Sequence Listing
to ensure a corresponding explanation is present
in the <220> to <223> fields of each sequence
using n or Xaa.



VERIFICATION SUMMARY

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Input Set : A:\PTO.DC.txt

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L:14 M:270 C: Current Application Number differs, Replaced Current Application No

L:14 M:271 C: Current Filing Date differs, Replaced Current Filing Date

L:122 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3
L:128 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3
L:236 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5
L:238 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5
L:244 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5
L:352 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:9
L:402 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:11
L:443 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:12
L:447 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:12
L:600 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:17
L:885 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:20
L:887 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:20
L:889 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:20
L:891 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:20
L:895 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:20
L:897 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:20
L:930 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:21
L:977 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:22
L:989 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:22
L:1049 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:24
L:1053 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:24
L:1057 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:24
L:1061 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:24
L:1175 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:26
L:1191 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:26
L:1201 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:26
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OIPE

RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/001,887

DATE: 12/12/2001

TIME: 14:20:51

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Output Set: N:\CRF3\12112001\I001887.raw

**Does Not Comply
Corrected Diskette Needed**

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 4 Macina, Roberto
 5 Recipon, Herve
 6 Cafferkey, Robert
 7 Sun, Yongming
 8 Liu, Chenghua
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 12 <130> FILE REFERENCE: DEX-0269
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 16 <150> PRIOR APPLICATION NUMBER: 60/252,563
 17 <151> PRIOR FILING DATE: 2000-11-22
 20 <160> NUMBER OF SEQ ID NOS: 137
 22 <170> SOFTWARE: PatentIn version 3.1

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VERIFICATION SUMMARY

PATENT APPLICATION: US/10/001,887

DATE: 12/12/2001

TIME: 14:20:53

Input Set : A:\DEX-269.ST25.txt

Output Set: N:\CRF3\12112001\I001887.raw

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